

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference  PN0335-PCT	<b>FOR FURTHER ACTION</b>		see Form PCT/ISA/220 as well as, where applicable, item 5 below.
International application No.  PCT/NO2004/000107	International filing date (day/month/year)  15/04/2004	(Earliest) Priority Date (day/month/year)  15/04/2003	
Applicant  AMERSHAM HEALTH AS			

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

**1. Basis of the report**

a. With regard to the **language**, the international search was carried out on the basis of the International application in the language in which it was filed, unless otherwise indicated under this item.

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b.  With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, see Box No. I.

2.  **Certain claims were found unsearchable** (See Box II).

3.  **Unity of invention is lacking** (see Box III).

4. With regard to the **title**,

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows:

COMPOUNDS GENERATING A DYNAMIC NUCLEAR POLARISATION PROCESS

5. With regard to the **abstract**,

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regards to the **drawings**,

a. the figure of the drawings to be published with the abstract is Figure No. \_\_\_\_\_

as suggested by the applicant.

as selected by this Authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.

b.  none of the figures is to be published with the abstract.

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/NO2004/000107

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G01R33/28

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 599 522 A (M. JORGENSEN ET AL.) 4 February 1997 (1997-02-04) column 1, line 5 - line 10 column 2, line 59 - column 23, line 28 -----	1-4,13, 14,17
X	D.A. HALL ET AL: "POLARIZATION-ENHANCED NMR SPECTROSCOPY OF BIOMOLECULES IN FROZEN SOLUTION" SCIENCE, vol. 276, 9 May 1997 (1997-05-09), pages 930-932, XP000882848 ISSN: 0036-8075 the whole document ----- -/-	1-4,10, 13,14,16

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

- \*T\* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- \*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- \*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- \*&\* document member of the same patent family

Date of the actual completion of the international search  4 August 2004	Date of mailing of the international search report  01/09/2004
Name and mailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer  Volmer, W

## INTERNATIONAL SEARCH REPORT

International Application No PCT/NO2004/000107
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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	<p>DATABASE MEDLINE 'Online! 15 September 2001 (2001-09-15), LEHNIG M: "15N chemically induced dynamic nuclear polarization during reaction of N-acetyl-L-tyrosine with the nitrating systems nitrite/hydrogen peroxide/horseradish peroxidase and nitrite/hypochloric acid." XP002290841 Database accession no. NLM11556811 abstract &amp; ARCHIVES OF BIOCHEMISTRY AND BIOPHYSICS. 15 SEP 2001, vol. 393, 15 September 2001 (2001-09-15), pages 245-254, ISSN: 0003-9861 the whole document</p> <p>-----</p> <p>DATABASE MEDLINE 'Online! US NATIONAL LIBRARY OF MEDICINE (NLM), BETHESDA, MD, US; 15 August 1999 (1999-08-15), LEHNIG M: "Radical mechanisms of the decomposition of peroxynitrite and the peroxynitrite-CO(2) adduct and of reactions with L-tyrosine and related compounds as studied by (15)N chemically induced dynamic nuclear polarization." XP002290842 Database accession no. NLM10441382 abstract; figure 1</p> <p>-----</p>	1-3,13, 14
X		1-3,13, 14

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No  
PCT/N02004/000107

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
US 5599522	A 04-02-1997	AU 651570 B2	28-07-1994
		DE 69112384 D1	28-09-1995
		DE 69112384 T2	28-03-1996
		EP 0515458 A1	02-12-1992
		FI 923589 A	11-08-1992
		GR 3017947 T3	29-02-1996
		NO 923117 A	08-10-1992
		AT 126707 T	15-09-1995
		AU 7235091 A	03-09-1991
		CA 2075818 A1	13-08-1991
		DK 515458 T3	25-09-1995
		WO 9112024 A1	22-08-1991
		ES 2076522 T3	01-11-1995
		IE 910462 A1	14-08-1991
		JP 3175940 B2	11-06-2001
		JP 5506428 T	22-09-1993
		US 5827501 A	27-10-1998